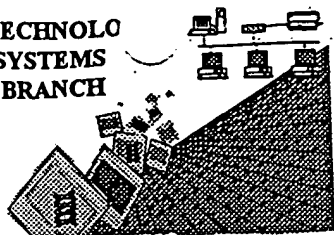


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/070,503
Source: PCT10
Date Processed by STIC: 3/21/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Raw Sequence Listing Error Summary

PCT 10

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/070,503

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 **Wrapped Nucleics** **Wrapped Aminos** The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

- 2 **Invalid Line Length** The rules require that a line not exceed 72 characters in length. This includes white spaces.

- 3 **Misaligned Amino** **Numbering** The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

- 4 **Non-ASCII** The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

- 5 **Variable Length** Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 **PatentIn 2.0** **"bug"** A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

- 7 **Skipped Sequences** **(OLD RULES)** Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

- 8 **Skipped Sequences** **(NEW RULES)** Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000

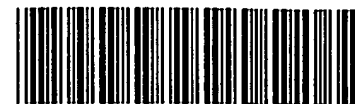
- 9 ✓ **Use of n's or Xaa's** **(NEW RULES)** Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 10 **Invalid <213>** **Response** Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

- 11 **Use of <220>** Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

- 12 **PatentIn 2.0** **"bug"** Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

- 13 **Misuse of n** n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



PCT10

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/070,503

DATE: 03/21/2002 *Errors on pp. 2,3,5*
TIME: 14:58:52

Input Set : A:\A6-seq.txt
Output Set: N:\CRF3\03212002\J070503.raw

```

3 <110> APPLICANT: Viventia Biotech Inc.
5 <120> TITLE OF INVENTION: ENHANCED PHAGE DISPLAY LIBRARIES AND METHODS FOR
6   PRODUCING SAME
8 <130> FILE REFERENCE: 33956-49
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/070,503
C--> 11 <141> CURRENT FILING DATE: 2002-03-07
13 <150> PRIOR APPLICATION NUMBER: CA2282179
14 <151> PRIOR FILING DATE: 1999-09-07
16 <150> PRIOR APPLICATION NUMBER: US60/163,546
17 <151> PRIOR FILING DATE: 1999-11-04
19 <160> NUMBER OF SEQ ID NOS: 60
21 <170> SOFTWARE: PatentIn Ver. 2.1
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 396
25 <212> TYPE: DNA
26 <213> ORGANISM: human
28 <400> SEQUENCE: 1
29 gaggtccagc tgcaggagtc tgggggaggc ttagtccagc ctgggggggtc cctgagactc 60
30 tcctgttcag cctctggatt caccttcagt agctatgcta tgcactgggt ccgccaggct 120
31 ccagggaagg gactggaata tgtttcagct attagtagta atgggggtag cacatactac 180
32 gcagactccg tgaagggcag attcaccatc tccagagaca attccaagaa cactctgtat 240
33 cttcaaatga gcagtctgag agctgaggac acggctgtgt attactgtgt gaaagacagg 300
34 ttaaaagtgg agtactatga tagtagtggt tattacgttt ctcggttcgg tgcttttgat 360
35 atctggggcc aagggaacaac ggtcaccgtc tcatca 396
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 132
40 <212> TYPE: PRT
41 <213> ORGANISM: human
43 <400> SEQUENCE: 2
44 Glu Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
45 1 5 10 15
47 Ser Leu Arg Leu Ser Cys Ser Ala Ser Gly Phe Thr Phe Ser Ser Tyr
48 20 25 30
50 Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val
51 35 40 45
53 Ser Ala Ile Ser Ser Asn Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
54 50 55 60
56 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
57 65 70 75 80
59 Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
60 85 90 95
62 Val Lys Asp Arg Leu Lys Val Glu Tyr Tyr Asp Ser Ser Gly Tyr Tyr
63 100 105 110

```

RAW SEQUENCE LISTING

DATE: 03/21/2002

PATENT APPLICATION: US/10/070,503

TIME: 14:58:52

Input Set : A:\A6-seq.txt

Output Set: N:\CRF3\03212002\J070503.raw

65 Val Ser Arg Phe Gly Ala Phe Asp Ile Trp Gly Gln Gly Thr Thr Val

66 115 120 125

68 Thr Val Ser Ser

69 130

72 <210> SEQ ID NO: 3

73 <211> LENGTH: 5

74 <212> TYPE: PRT

75 <213> ORGANISM: human

77 <400> SEQUENCE: 3

78 Ser Tyr Ala Met His

79 1 5

82 <210> SEQ ID NO: 4

83 <211> LENGTH: 16

84 <212> TYPE: PRT

85 <213> ORGANISM: human

87 <400> SEQUENCE: 4

88 Ala Ile Ser Ser Asn Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys

89 1 5 10 15

92 <210> SEQ ID NO: 5

93 <211> LENGTH: 23

94 <212> TYPE: PRT

95 <213> ORGANISM: human

97 <400> SEQUENCE: 5

98 Asp Arg Leu Lys Val Glu Tyr Tyr Asp Ser Ser Gly Tyr Tyr Val Ser

99 1 5 10 15

101 Arg Phe Gly Ala Phe Asp Ile

102 20

105 <210> SEQ ID NO: 6

106 <211> LENGTH: 34

107 <212> TYPE: DNA

108 <213> ORGANISM: Artificial Sequence

110 <220> FEATURE:

111 <223> OTHER INFORMATION: Description of Artificial Sequence:primer

113 <400> SEQUENCE: 6

W--> 114 gccccagata tcaaaaacnnt ttcacacagt aata

34

117 <210> SEQ ID NO: 7

118 <211> LENGTH: 18

119 <212> TYPE: DNA

120 <213> ORGANISM: Artificial Sequence

122 <220> FEATURE:

123 <223> OTHER INFORMATION: Description of Artificial Sequence:primer

125 <400> SEQUENCE: 7

126 tgttcagcta gcggattc

18

129 <210> SEQ ID NO: 8

130 <211> LENGTH: 42

131 <212> TYPE: DNA

132 <213> ORGANISM: Artificial Sequence

134 <220> FEATURE:

135 <223> OTHER INFORMATION: Description of Artificial Sequence:primer

must explain what residue n represents and location; see error summary sheet item 9

RAW SEQUENCE LISTING

DATE: 03/21/2002

PATENT APPLICATION: US/10/070,503

TIME: 14:58:52

Input Set : A:\A6-seq.txt

Output Set: N:\CRF3\03212002\J070503.raw

```

137 <400> SEQUENCE: 8
138 tgaggagacg gtgaccgttg tcccttggcc ccagatatca aa 42
141 <210> SEQ ID NO: 9
142 <211> LENGTH: 38
143 <212> TYPE: DNA
144 <213> ORGANISM: Artificial Sequence
146 <220> FEATURE:
147 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
149 <400> SEQUENCE: 9
150 catgaccaca gtgcacagga ggtccagctg caggagtc 38
153 <210> SEQ ID NO: 10
154 <211> LENGTH: 18
155 <212> TYPE: DNA
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
161 <400> SEQUENCE: 10
162 tttcacacag taatacac 18
165 <210> SEQ ID NO: 11
166 <211> LENGTH: 57
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
173 <400> SEQUENCE: 11
174 cgattctgcg gccgctgagg agacggtgac cgttgtccct tggccccaga tatcaaa 57
177 <210> SEQ ID NO: 12
178 <211> LENGTH: 37
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
185 <400> SEQUENCE: 12
W--> 186 gttgtccctt ggccccac nntttcacac agtaata 37
189 <210> SEQ ID NO: 13
190 <211> LENGTH: 30
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
197 <400> SEQUENCE: 13
198 actttcttgt aattggacct cggcctgctg 30
201 <210> SEQ ID NO: 14
202 <211> LENGTH: 21
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
209 <400> SEQUENCE: 14

```

same error

RAW SEQUENCE LISTING

DATE: 03/21/2002

PATENT APPLICATION: US/10/070,503

TIME: 14:58:52

Input Set : A:\A6-seq.txt

Output Set: N:\CRF3\03212002\J070503.raw

```

210 ctctcctgtg ctgcctctgg a 21
213 <210> SEQ ID NO: 15
214 <211> LENGTH: 21
215 <212> TYPE: DNA
216 <213> ORGANISM: Artificial Sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
221 <400> SEQUENCE: 15
222 tccagaggca gcacaggaga g 21
225 <210> SEQ ID NO: 16
226 <211> LENGTH: 54
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
233 <400> SEQUENCE: 16
234 cgcacagtaa tacacagccg tgcctcagc tctcagactg ttcatattgaa gata 54
237 <210> SEQ ID NO: 17
238 <211> LENGTH: 24
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial Sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
245 <400> SEQUENCE: 17
246 gtgtattact gtgcgaaaga cagg 24
249 <210> SEQ ID NO: 18
250 <211> LENGTH: 21
251 <212> TYPE: DNA
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
257 <400> SEQUENCE: 18
258 caattacaag ctagtggtgg c 21
261 <210> SEQ ID NO: 19
262 <211> LENGTH: 39
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
269 <400> SEQUENCE: 19
270 tatggatcct gaggagacgg tgacctgtgt cccttggcc 39
273 <210> SEQ ID NO: 20
274 <211> LENGTH: 38
275 <212> TYPE: DNA
276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
281 <400> SEQUENCE: 20
282 catgaccaca gtgcacagga ggtccaatta caagaaag 38

```

RAW SEQUENCE LISTING

DATE: 03/21/2002

PATENT APPLICATION: US/10/070,503

TIME: 14:58:52

Input Set : A:\A6-seq.txt

Output Set: N:\CRF3\03212002\J070503.raw

285 <210> SEQ ID NO: 21
 286 <211> LENGTH: 43
 287 <212> TYPE: DNA
 288 <213> ORGANISM: Artificial Sequence
 290 <220> FEATURE:
 291 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
 293 <400> SEQUENCE: 21
 W--> 294 cccttgcccc cagatatcaa aacn^①tttcg cacagtaata cac 43
 297 <210> SEQ ID NO: 22
 298 <211> LENGTH: 54
 299 <212> TYPE: DNA
 300 <213> ORGANISM: Artificial Sequence
 302 <220> FEATURE:
 303 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
 305 <400> SEQUENCE: 22
 306 cgattctgcg gccgctgagg agacggtgac ctgtgtccct tggccccaga tate 54
 309 <210> SEQ ID NO: 23
 310 <211> LENGTH: 24
 311 <212> TYPE: DNA
 312 <213> ORGANISM: Artificial Sequence
 314 <220> FEATURE:
 315 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
 317 <400> SEQUENCE: 23
 318 gcggataaca atttcacaca ggaa 24
 321 <210> SEQ ID NO: 24
 322 <211> LENGTH: 24
 323 <212> TYPE: DNA
 324 <213> ORGANISM: Artificial Sequence
 326 <220> FEATURE:
 327 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
 329 <400> SEQUENCE: 24
 330 cgccagggtt ttcccagtcg cgac 24
 333 <210> SEQ ID NO: 25
 334 <211> LENGTH: 59
 335 <212> TYPE: DNA
 336 <213> ORGANISM: Artificial Sequence
 338 <220> FEATURE:
 339 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
 341 <400> SEQUENCE: 25
 342 gaggtccaat tacaagctag tgggtggcgga ctggtgcaac cagaggttcc ctgagactc 59
 345 <210> SEQ ID NO: 26
 346 <211> LENGTH: 60
 347 <212> TYPE: DNA
 348 <213> ORGANISM: Artificial Sequence
 350 <220> FEATURE:
 351 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
 353 <400> SEQUENCE: 26
 354 atcgaggttg cactggctgg ttctgctacc gttgcggagg ccgaggtcca attacaagct 60
 357 <210> SEQ ID NO: 27

VERIFICATION SUMMARY

DATE: 03/21/2002

PATENT APPLICATION: US/10/070,503

TIME: 14:58:54

Input Set : A:\A6-seq.txt

Output Set: N:\CRF3\03212002\J070503.raw

L:10 M:270 C: Current Application Number differs, Wrong Format
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:114 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6
L:114 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:186 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:12
L:186 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:12
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:294 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:21
L:294 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21
L:294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21